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Office Memorandum • UNITED STATES GOVERNMENT

TO : The Files

DATE: 29 August 1958

FROM :

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SUBJECT: Hand Crank Generator - Trip Report

1. General - A trip was made to on 28 August 1958, to monitor work being done on the HG-3 Hand Crank Generator. Present were:

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2. Power Regulator - A concentrated effort on the design of a suitable regulator has been made by the contractor since the receipt of the contract. A non-dissipative type regulator, using silicon controlled rectifiers, has been breadboarded and has met with general success. A regulator of this type, with full wave rectification, would have two silicon controlled rectifiers, two saturable reactors, two chokes, a transformer, a transistor as its major components. The contractor believes that this regulator can be housed in the space allotted in the generator unit. The important advantage of a regulator of this type is that it would make the efficiency of the unit independent of cranking speed.

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3. Hand Crank - The contractor has made a sample hand crank and is now running tests, using a magnetic fluid clutch as a simulated load, to determine the best type of crank to be used with the generator. The contractor expects to have a complete generator unit breadboarded within the next sixty days.

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